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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION N	
10/697,002	10/31/2003	Kiwamu Tanahashi	NIT-401 9915		
7590 02/01/2006			EXAMINER		
Mattingly, Stanger & Malur, P.C. Suite 370			RICKMAN, HOLLY C		
1800 Diagonal Road			ART UNIT	PAPER NUMBER	
Alexandria, VA 22314			1773		
			DATE MAILED: 02/01/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N	lo.	Applicant(s)				
Office Action Summary		10/697,002	10/697,002		TANAHASHI ET AL.			
		Examiner		Art Unit				
		Holly Rickmar	1	1773				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHO WHIC - Exter after - If NO - Failur Any r	DRTENED STATUTORY PERIOD FOR REP HEVER IS LONGER, FROM THE MAILING isions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory perior e to reply within the set or extended period for reply will, by stati- eply received by the Office later than three months after the maind patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS 1.136(a). In no event, he od will apply and will expute, cause the application	COMMUNICATION owever, may a reply be timulating SIX (6) MONTHS from to become ABANDONED	l. lely filed the mailing date of this co (35 U.S.C. § 133).	,			
Status								
2a)☐ 3)☐	Responsive to communication(s) filed on <u>18</u> This action is FINAL . 2b)⊠ The Since this application is in condition for allow closed in accordance with the practice under	nis action is non- vance except for	final. formal matters, pro		merits is			
Disposition of Claims								
5)⊠ 6)⊠ 7)□ 8)□	Claim(s) 1,3-11 and 17-22 is/are pending in 4a) Of the above claim(s) is/are withdred Claim(s) 17 is/are allowed. Claim(s) 1,3-11 and 18-22 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	rawn from consic						
	on Papers							
10)	The specification is objected to by the Examing The drawing(s) filed on is/are: a) and a complete and any objection to the Replacement drawing sheet(s) including the correction or declaration is objected to by the	ccepted or b) () one drawing(s) be he ection is required if	eld in abeyance. See the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CF	• •			
Priority u	nder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date		Interview Summary Paper No(s)/Mail Da Notice of Informal Pa Other:	ite	D-152)			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/418/05 has been entered.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. The rejection of claim 11 under 35 U.S.C. 112, first paragraph, is withdrawn in view of Applicant's amendments.
- 4. Claims 1, 3-11, and 18-22 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a ferromagnetic layer broadly or a ferromagnetic layer formed from a bcc alloy containing Co and Fe, does not reasonably provide enablement for a ferromagnetic layer made from a soft magnetic material. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make the invention commensurate in scope with these claims. The specification teaches a

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ferromagnetic layer formed from a bcc alloy containing mainly Co and Fe. This disclosure is not supportive of the broad claim of soft magnetic materials as alleged in Applicant's arguments.

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 18-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "high magnetic moment" in claims 18-22 is a relative term which renders the claims indefinite. The term "high magnetic moment" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

Claim Rejections - 35 USC § 103

7. The rejection of claims 1 and 3-10 under 35 U.S.C. 102(e) as being anticipated by Carey et al. (US 2003/0022023) in view of Shukh et al. (US 6818330) is withdrawn in view of Applicant's amendments.

Allowable Subject Matter

8. Claim 17 is allowable over the closest prior art to Carey et al. Carey fails to teach or suggest the claimed combination of an antiferromagnetic layer underlying an

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antiferromagnetically coupled soft magnetic underlayer having an underlying bcc alloy layer containing Co and Fe.

Response to Arguments

9. Applicant's arguments filed 3/7/05 have been considered but are moot in view of the new ground(s) of rejection.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Holly Rickman whose telephone number is (571) 272-1514. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney can be reached on (571) 272-1284. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Holly Rickman
Primary Examiner

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